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HAWAIIAN BOTANICAL SOCIETY NEWSLETTER

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Vol. I, No. 8 | Honolulu, Hawaii | December 1962

HAWAIIAN BOTANICAL SOCIETY MEETING

TIME: Monday, December 3, 1962 - 7:30 p. m.

PLACE: Agee Hall, Experiment Station of the Hawaiian Sugar Planters' Association, 1527 Keeaumoku Street, Honolulu.

SUBJECT: "Plant Collecting in the Andes" (illustrated).

SPEAKER: Paul C. Hutchinson, Senior Botanist, Botanical Gardens, University of California, Berkeley. Mr. Hutchinson is in Hawaii by invitation of the Friends of Foster Garden to serve as consultant on the Lyon Botanical Garden project in Koko Crater.

This lecture is co-sponsored with the Friends of Foster Garden, Hawaiian Academy of Science, and Hawaiian Botanical Gardens Foundation, Inc.

The ANNUAL BUSINESS MEETING will be held after the lecture. It will include election of officers for the 1963 calendar year. The annual reports are in this issue of the newsletter.

NEW MEMBERS

The following were elected to Society membership at the November meeting: Dr. A. Carl Leopold, Mr. Didin Soetrapradja, and Dr. Richard F. Smith, University of Hawaii; Mr. George B. Richmond, U. S. Forest Service; Mr. Bernard H. Shinbara, State Department of Agriculture; and Dr. P. Quentin Tomich, State Department of Health.

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H A W A I I A N B O T A N I C A L S O C I E T Y
c/o Department of Botany, University of Hawaii
Honolulu 14, Hawaii

OFFICERS:
President - Dr. Charles H. Lamoureux (University of Hawaii)
Vice-President - Dr. Maxwell S. Doty (University of Hawaii)
Secretary----------Alvin K. Chock (U. S. Dept. of Agriculture, B. P. Bishop Museum, University of Hawaii)
Treasurer----------William M. Bush (Castle & Cooke, Inc.)
Executive Committee Members: Officers and Dr. Donald P. Gowing (Pineapple Research Institute of Hawaii) and Mrs. J. H. Beaumont.
Membership Committee: Dr. Constance E. Hartt (Hawaiian Sugar Planters' Association), chairman; Dr. Edward J. Britten (University of Hawaii) and Iichi Yanagihara (Pineapple Research Institute of Hawaii).

EDITORIAL STAFF:
Editor----------Alvin K. Chock
Reporters: Charles H. Lamoureux (UH)
James Brewbaker (UH)
Constance E. Hartt (HSPA)
Donald P. Gowing (PRI)

The Hawaiian Botanical Society Newsletter is published monthly, except during the summer months of July, August and September. It is distributed to Society members and other interested individuals and institutions, with the purpose of informing them about botanical news and progress in Hawaii (and the Pacific). The deadline for submission of news items is the 20th of each month prior to publication.

MEMBERSHIP DUES: Annual, $2.00 for the calendar year (to be submitted to the Treasurer, Mr. Wm. M. Bush, P. O. Box 2990, Honolulu 2, Hawaii).

E D I T O R ' S N O T E S

SOCIETY MEMBERSHIP: With the approval of the constitutional amendment at the last meeting, "any person interested in the plant life of the Hawaiian Islands is eligible for membership in this society." The section excusing members who were absent from the island of Oahu for one year or more from payment of dues was deleted. The society, by allowing non-resident specialists in the Hawaiian flora to become members, has broadened and expanded its membership aspects---not only for the rest of the State, but also the mainland and elsewhere.

And commendations to the 1962 Membership Committee, chaired by Dr. Constance Hartt, which added 45 new members to the Society. They have done an excellent job.

THIS PAST YEAR: This issue marks the last one for Volume One of the Hawaiian Botanical Society Newsletter. It first appeared in February 1962 on a trial basis and has, since that time, become a part of the Society. The newsletter staff has endeavored to inform the membership and other interested individuals about botanical news and progress in Hawaii and the Pacific. The next issue will be Volume 2, Number 1.

Appreciation is extended to all who have cooperated by giving the Editor the various news items, reprints, and notes, or by assisting in the production of the newsletter. The annual reports summarize the activities of the Society during the calendar year 1962. Members of the Society, officially and unofficially, have also actively participated in other community organizations.

CONSERVATION: Governor-elect John A. Burns' statement of conservation (printed elsewhere in this issue) is much appreciated. His pre-election platform also included the proposal to "create an outstanding botanical park."

ANNUAL REPORTS

SECRETARY: The Membership Committee, under the chairmanship of Dr. Constance Hartt, HSPA, presented 45 names for election to membership. Sixteen were from the Plant Quarantine Division, Agricultural Research Service, U. S. D. A.; 12 from the University of Hawaii, 9 from the Hawaiian Sugar Planters Association; 3 from the B. P. Bishop Museum, 2 from the State Dept. of Agriculture, and one each from the State Dept. of Health, U. S. Forest Service and Punahou School. Twelve members were dropped for various reasons, with a total membership of 191 at the end of November, 1962.

Three constitutional amendments were adopted during the year:

1. (February) Article VI, Section 1 - the dues were increased to two dollars ($2.00) per calendar year.
2. (November) Article II, Section 2 - eligibility of membership was changed to include anyone interested in the plant life of the Hawaiian Islands rather than the previous limitation on residence in Hawaii.
3. (November) Article VI, Section 2 - the provision for non-payment of dues for absences of one year or longer from the island of Oahu was dropped.

The Society voiced its approval of the Foster Botanical Garden acquisition by letters and conferences with government officials. Membership was continued in the Friends of Foster Garden, Hawaiian Academy of Science, Conservation Council for Hawaii, Hawaiian Botanical Gardens Foundation, Inc., and Nature Conservacy. Science Fair awards were contributed.

This year marked the beginning of the Hawaiian Botanical Society Newsletter, which began in February, 1962. A total of eight issues were published, with distribution to society members and interested individuals, institutions, and government officials in Hawaii and elsewhere. The editor of the newsletter was the secretary. A directory of the membership was compiled with addresses, positions, fields of interest and current research projects listed.

Nine meetings were held during the year, with the following scientific programs arranged by the Vice-President:

January 7 - "Radiation Botany," by Dr. James Brewbaker, Associate Horticulturist, University of Hawaii.

February 5 - "Marine Biogeography of Australian Coasts," by Dr. Bryan Womersley, Reader in Botany, University of Adelaide, Adelaide, Australia.

March 5 - "Botany and the Bishop Museum," by Dr. Roland W. Force, Director, Bernice Pauahi Bishop Museum.

April 2 - "Cell culture and growth in vitro," by Dr. L. G. Nickell, Principal Plant Physiologist, Experiment Station of the Hawaiian Sugar Planters' Association.

May 10 - "The gonophyll theory: a new interpretation of the angiosperm flower," by Dr. R. Melville, Botanist, The Herbarium and Library, Royal Botanic Gardens, Kew, Great Britain.

June 4 - "Bio-geo-climatic zones in the Hawaiian Islands," by Dr. Vladimir J. Krajina, Visiting Professor of Botany, University of Hawaii (Professor of Botany, University of British Columbia).

October 1 - "Senesence in Plants," by Dr. A. Carl Leopold, Carnegie Visiting Professor of Plant Physiology, University of Hawaii. (Professor of Plant Physiology, Purdue University).

November 5 - "Managing Tropical Forests," by Dr. Irvine T. Haig, Carnegie Visiting Professor of Forestry, University of Hawaii.

December 3 - "Plant Collecting in the Andes," by Mr. Paul C. Hutchinson, Senior Botanist, Botanical Gardens, University of California, Berkeley.

Mr. Oscar Kirsch presented displays of orchid plants at the conclusion of each meeting. Exhibits were also presented by Dr. Constance Hartt, Mr. Ernest Holt, Dr. Vladimir J. Krajina and Mr. W. W. Goodale Moir.

ANNUAL REPORTS

TREASURER

For the year ended November 30, 1962:

Cash in bank November 30, 1961:		
Commercial account	$ 51.34	
First Federal Savings & Loan Assn.	1,061.20	
		$ 1,112.54
Receipts:		
Dues	316.00	
Interest on Savings & Loan account	45.56	
		$ 1,474.10
Expenditures:		
Secretary's expenses, mailing notices, newsletters, etc.	161.58	
Treasurer's expenses, mailing notices, etc.	23.20	
Nature Conservancy 1962 dues	10.00	
Hawaiian Botanical Gardens Foundation, Inc., contributing membership	25.00	
Conservation Council for Hawaii 1962 dues	2.00	
Friends of Foster Garden supporting membership	25.00	
Honorarium for Dr. R. Melville, speaker	25.00	
Science Fair awards	25.00	
Cigars for Mr. Okura (projectionist)	5.42	
		302.20
		$ 1,171.90
Cash in bank November 30, 1962:		
Commercial account	65.14	
First Federal Savings & Loan account	1,106.76	
		$ 1,171.90

NOMINATING COMMITTEE

The Nominating Committee (Dr. Edward J. Britten, chairman; Dr. Donald P. Gowing; and Mr. Oscar Kirsch) proposes the following names for election at the annual meeting on December 3:

President - Dr. Maxwell S. Doty, Professor of Botany, University of Hawaii.

Vice-President - Dr. Arthur H. Lange, Associate Plant Physiologist, Pineapple Research Institute of Hawaii.

Secretary - Dr. Toshio Nakashige, Assistant Professor of Horticulture, University of Hawaii, and Assistant Horticulturist, Hawaii Agricultural Experiment Station, U. H.

Treasurer - Mr. William M. Bush, Executive Vice-President, Castle & Cooke, Inc.

Executive Committee Members: Dr. Charles H. Lamoureux, Assistant Professor of Botany and Chairman, Department of Botany, University of Hawaii; and Mr. Alvin K. Chock, Plant Quarantine Inspector, Agricultural Research Service, U. S. D. A.; Assistant Botanist, B. P. Bishop Museum, and Lecturer in Botany, University of Hawaii.

Membership Committee Members: Dr. Louis G. Nickell (Chairman), Principal Physiologist & Biochemist, Experiment Station of the Hawaiian Sugar Planters' Association; Mr. Kalfred K. Yee, Manager, Garden City, Inc., and Exotics Hawaii, Ltd.; and Dr. James Brewbaker, Associate Professor of Horticulture, University of Hawaii and Associate Horticulturist, Hawaii Agricultural Experiment Station, U. H.

GOVERNOR JOHN A. BURNS

Governor-elect John A. Burns' statement on Hawaii's Natural Resources of scenic beauty and open spaces was presented to Robert Wenkam (Vice-President, Federation of Western Outdoor Clubs) and read at the Conservation Council for Hawaii's annual meeting on November 8.

The text of this statement is: "Hawaii's natural beauty is a God-given gift to our people. I feel that it is incumbent upon all of us---in government, in business, and as individual citizens---to hold this precious gift in trust for future generations. The ownership of land, whether public or private, does not carry with it the right to deface its natural beauty in the name of progress.

"Men of vision in the past have had the foresight to protect this heritage. As a result, today we have a State that is world renowned for its natural beauty. This resource alone has been a motivating factor in making Hawaii a place where people want to live and want to visit. Those who have chosen to live here have brought new skills, new industry, and new activity to our economy. Those who choose to visit here have created one of our major industries: tourism. Thus, we have a natural resource that everyone can enjoy and at the same time one that helps to build a healthy economy.

"We have the basic land use laws on our books to further protect and enhance these resources. At the same time, these laws provide for tax benefits when land is preserved for agriculture or conservation use. These laws must be interpreted by thoughtful men to assure their proper implementation so that our natural scenic beauty and open spaces will be safeguarded in the best interest of our citizens, both present and future."

The Council passed a motion thanking the Governor for his message and pledged its support, assistance, and cooperation to the Governor in his conservation program.

The following are portions of the pre-election platform which Mr. Burns offered (an advertisement in the Sunday Star-Bulletin and Advertiser, Nov. 4, 1962, page A22: "A letter from John A. Burns, for this I stand"):

"For the economic development of our state to provide the rapid increase of business opportunities and jobs I propose:

"1. A crash program of intensive, practical, basic research exploring and developing our potentials in our lands, minerals, the sea around us, our climate, geographical location and the talents of our people.

"4. An adequate insect and pest control program ....

"7. A practical reforestation program which will guarantee future generations an adequate supply of building lumber at reasonable prices and provide for more jobs in a new lumber industry.

"10. Beautification of our State Highways and parks to attract more visitors to Hawaii and for the enjoyment of our people.

"12. Encourage a greater diversification of agriculture ....

"For the general welfare I propose:

"4. The immediate acquisition of good beach, picnic and camping sites to develop into recreational areas for the enjoyment of Hawaii's people.

"5. A complete program of restoring historical sites not only to preserve our Hawaiian culture and heritage but to attract more visitors to Hawaii.

"8. Adopt a harvest yield tax bill to encourage farmers and land owners of conservation lands to plant long term crops of fruits, nuts, timber, and decorative trees without fear of increased taxes.

"10. Create an outstanding botanical park of tropical plants for public enjoyment, scientific study, and visitor attraction."

U N I V E R S I T Y O F H A W A I I

Dr. Stanley G. Stephens, William Neal Reynolds Professor of Genetics, North Carolina State College, has been appointed to the faculty of the Department of Genetics for the spring semester, 1963. Dr. Stephens is an international authority on the evolution in the genus Gossypium and while here will especially concern himself with the Hawaiian endemic species, G. tomentosum. It is expected that he will give a course and seminars in the evolution of cultivated plants.

Dr. Maxwell S. Doty, Professor of Botany, was in Bermuda for one week to put into final form the phytoplankton productivity work for the American biological ship, "Anton Brunn." The ship will be in the Indian Ocean for three years, participating in the international cooperative study. Dr. Doty is in charge of the intercalibration productivity work for the Indian Ocean Expeditions, and also for the American productivity research efforts. Besides collecting algae in the Bahamas, he held several mainland conferences on phytoplankton and marine botanical work in the Central Pacific.

Plans are now underway for Chinese, Japanese and Hawaiian gardens at the East-West Center. They will be located in the area between the center's buildings and Manoa Stream. A Japanese landscape architect will design the Japanese garden.

Dr. Charles H. Lamoureux, Chairman of the Department of Botany, heads the Campus Beautification Committee. He will welcome suggestions from society members for improving the campus' appearance.

Dr. Charles Rick, Professor of Genetics and Geneticist, University of California at Davis, has been appointed Carnegie Visiting Professor of Horticulture for the spring semester, 1963. Dr. Rick is noted for his research work on tomato genetics and breeding.

PLANT SCIENCE BUILDING: Four floor plans outlining building requirements have been prepared and drawn for a Plant Science Building. This structure will house the Departments of Botany, Horticulture, Plant Pathology, Plant Physiology and General Science. The plans prepared are based on a 24' module. The different department chairmen have presented their present and future needs for laboratories and classrooms, to form an area planning study. The basic preliminary plans will later be revised by architects and engineers.

The building facilities include teaching and research laboratories and classrooms, with the most modern equipment to provide better training for upperclass and graduate students. Living plant material will be available, with the provision for greenhouses and a facility with controlled climates for experimental work. Introduced plants could be placed in the latter; various physiological experiments of the most advanced type can also be carried out there. The building will also provide for better and more effective teaching and training with demonstration facilities for the general courses. Provision has been made for two modern audio-visual rooms which will enhance undergraduate teaching and will be available for use by academic groups and organizations. The area for all facilities might be as large as 160,000 square feet. Present planning includes an herbarium on one of the four and one-half floors envisaged. Dean Robert Hiatt, Director of Research, presented the plans for preliminary review by the national agencies in Washington, D. C., recently and received enthusiastic comments from those agencies from whom partial support is expected.

(Continued on page 7)

U N I V E R S I T Y O F H A W A I I (Continued from page 6)

PHYSIOLOGY AND HORTICULTURE SEMINARS are held every Tuesday at 12 noon in Keller Hall 301. Nov. 27: "Gibberellin and light responses of plants," Mr. R. Williams and "Gibberellin and cold responses of plants," Mr. N. Magalona; Dec. 4: "Dwarfism as related to gibberellin," and "The 'anti-gibberellins'," by Mr. N. Nwachuku; Dec. 11: "Interactions of gibberellins and other growth substances," Mr. T. Chin and "Kinins and bud formation," by Mr. R. Nakano; Dec. 18: "Kinins and cell division," by Mr. S. Chao and "Kinin bioassays," by Mr. R. Barba; Jan. 8: "Kinetin structure and activity," by Mr. T. Bezuneh and "Inhibitors and seed germination," by Mr. F. Aquilizan; and Jan. 15: "Growth inhibitors in plant competition," by Mr. J. Kunisaki and "Inhibitors of auxin oxidase," by Mrs. P. Pages. All interested are urged to attend and participate in the discussion. It is suggested that sack lunches be brought. For further information, contact Dr. A. Carl Leopold.

BOTANY SEMINARS are held every Thursday at 1:00 p. m. in Dean Hall 203. Nov. 29: "Interaction of gibberellins and auxins," by Rollo DeLafuente; Dec. 6: "Origin of Hawaiian flora," by Marilyn Galang; Dec. 13: "Tissue differentiation, especially in xylem," by Didin Sastrapradja and "The mechanism of stomatal movement," by Trono Gavino; Dec. 20: "Recent progress in research on photosynthesis," by Russell Williams. The schedule on Dec. 13 and 20 is subject to change; for further information, contact Dr. George Hollenberg.

Dr. E. Yale Dawson, Director of the Beaudette Foundation at Solvang, California, and Professor of Biology at the University of Southern California, was in Honolulu for four days. He came here to formulate with Dr. M. S. Doty a marine science instruction program for institutions in the Western States. Teaching is expected to be improved through this cooperative work plan. It is expected that he will also present a report on what can be done in the field of botany at the University of Hawaii. Dr. Dawson is Vice-President of the Western Society of Naturalists. He is considered by many to be the world's outstanding benthic algal taxonomist. A frequent visitor (and algae collector) to Hawaii, he was last here during the Tenth Pacific Science Congress in August/September, 1961.

Dr. Charles H. Lamoureux, Chairman of the Department of Botany, plans to go to Midway Island this month. He will spend one week collecting plant specimens.

P L A N T Q U A R A N T I N E D I V I S I O N (U. S. D. A.)

Mr. Willis H. Wheeler, Assistant Director, inspected Honolulu's PQD facilities and talked to local personnel. He was in Japan for several weeks and is on his way back to Division headquarters in Washington, D. C.

Local personnel are now "settled" in their new and more adequate facilities at the new Honolulu International Airport. There are two separate offices: one in Room 215 in the Administration Building between the two departure wings and another, including a laboratory for the examination and treatment of foreign nursery stock, in the Foreign Arrivals Building.

Earl T. Ozaki transferred from New York, where he was port pathologist, to Honolulu as an inspector. Dr. Harold S. Shirakawa, formerly a shift supervisor, left Honolulu for the New York Training Center. His new duties include teaching plant pathology.

(Continued on page 8)

PLANT QUARANTINE DIVISION (U. S. D. A.) (Continued from page 7)

This Division had the largest number of 1962 new members in the Society.

An exhibit about Plant Quarantine Inspectors is temporarily in the Honolulu International Airport lobby. It depicts in pictures the work at sea, air and border ports of entry to intercept foreign agricultural plant diseases, insects and nematodes; examples of some of these plant pests; the safe way to import plants and plant products; and the inspector's training---a bachelor's degree in one of the agricultural or biological sciences and six months of school at the New York Training Center.

BERNICE P. BISHOP MUSEUM

Recent herbarium accessions include the following: flowering plants, ferns and mosses from the Hawaiian Islands collected by Earl T. Ozaki, Plant Quarantine Division, ARS, USDA; flowering plants from French Frigate Shoal and Kure Island collected by Dr. Charles H. Lamoureux, University of Hawaii; and flowering plants and one moss from Midway Island collected by Dr. Hubert Frings, Dept. of Zoology, University of Hawaii which were presented by Dr. Charles Lamoureux.

Dr. Roland W. Force, Director, attended the American Anthropological Association annual meeting in Chicago and visited New York, Washington and New Haven on museum business. He returns to Honolulu at the end of November.

The Museum's telephone number after December 1 will be 855951.

Dr. and Mrs. (Dr. Ruth D.) Arthur Svihla, University of Washington, Seattle, Washington, were in Hawaii for two weeks. They leave on Nov. 30 for Mauna Viti (Fiji), where they will stay for several weeks. Visits will also be made at American Samoa and Tahiti, with possible side trips to British Samoa and Tonga before returning to Seattle. Dr. A. Svihla is Professor of Zoology, is an entomologist and mammologist and will be working on the Polynesian dog. He will also collect insects, particularly dragonflies. Dr. (Mrs.) R. Svihla, Research Associate in Zoology and Botany, plans to collect bryophytes on this trip. She has collected them in Burma and in several areas of the Pacific, including Hawaii. Her special interests are the Burmese Hepaticae and the Frullaniaceae. Both examined specimens in the museum's research collections---he, the dog bones, and she, the Bryophyta.

HAWAIIAN SUGAR PLANTERS ASSOCIATION

Dr. Leonard D. Baver, Director of Research (Experiment Station), presented papers at the World Soil Science Congress in New Zealand and the 11th Congress of International Society of Sugar Cane Technologists in Mauritius Island. He also presided at the World Soil Science Congress and was chairman of one section.

Dr. A. J. Mangelsdorf will be in Thailand until the end of November as a Consultant for the Rockefeller Foundation. His work is with the sugar industry. He also visited his daughter in Japan and observed the sugar industry in the Philippines and will visit Australia.

Dr. George Burr is on a trip around the world.

F R A N Z E L F R I E D W I M M E R , 1881 - 1961[1]

Otto & Isa Degener[2]

With the Hawaiian lobelia specialist Dr. J. F. Rock residing in the Orient, our Lobeliaceae were consistently mailed to Dr. F. E. Wimmer, monographer of the Family for "Das Pflanzenreich." This involved lively correspondence for over a quarter of a Century and a visit of the kane writer to the Naturhistorischen Museum in Vienna to meet Wimmer there among his specimens.

Franz E. Wimmer, son of a Wladviertel farmer, was born November 30, 1881, in Niederschrems, Austria. He early showed interest in insects and particularly plants. After studying in Vienna and Graz, he began his teaching career at St. Georgs-Kolleg, in the then city of Constantinople, during his spare time enriching his biological collections with trips in Asia Minor. Ordained to the priesthood July 21, 1907, he first was Chaplain in Vienna, later Priest in Wampersdorf, and for many years thereafter religious Rector in the "Elisabeth-Spital der Barmherzigen Schwestern" in Vienna. He retired in 1958.

In spite of religious duties, Dr. Wimmer accomplished a monumental work in Botany, helping with the writing of a "Flora of Peru," "Flora de Madagascar," and a Flora of West Africa and of South America. In 1960 he was writing a book about the Cyphiaceae. In 1944 he was elected Correspondent of the Natural History Museum of Vienna, which institution had stimulated him to produce his magnus opus, the "Campanulaceae-Lobelioideae" of the World. In the bombing of the botanical museum by our fliers during World War II, the magnificant collection of Phanerogams was largely destroyed. The Lobeliaceae, on loan to Wimmer, escaped the holocast.

Wimmer himself drew many of the Hawaiian Lobeliaceae for this Flora in pencil; due to the infirmities of age, employing his nephew Helmut Schmidt to ink them in for the Honolulu printer. In his letter of December 1960 to us, in which he acquainted us of his second and unsuccessful operation for a malignancy, he quoted the dialect poet Stelzhammer:

"Freud und Leid hat alls sein' Zeit,
Wie 's kommt, so geht 's und kein 's versteht 's.
Aufs Hirn kannst hammern,
Ans Herz kannst schlagen;
Das Gscheidest ist: Gehuldig tragen."

It was Dr. Wimmer's aim to settle his affairs and to finish the Supplement of his great work. The manuscript was completed by March 1961, and in the hands of the printer the following month.

He signed his letters F. or F. E. Wimmer or Wimer, the horizontal line over the m denoting its duplication.

He somewhat agreed with the writers' suspicion that the species of Lobelia s.l., of Hawaii, originating in the Archipelago from probably a single introduction, deserve segregation in a distinct, endemic genus, even suggesting the man for whom the latter should be named. Because of Dr. Wimmer's unexcelled knowledge of the Lobeliaceae, we take the liberty of establishing the genus Neowimmeria for our endemic Lobelia relatives, a name we had suggested to him as more eminently appropriate in our correspondence of October 27, 1960. This modification of Dr. Wimmer's name is necessary because the genus Wimmeria (Celastraceae) had been published over a hundred years ago.

April 10 Dr. Rock wrote Dr. Wimmer that he had named a new Trematolobelia in his honor. We hope our gentle friend learned of this discovery before his death May 2, 1961, in the same hospital in which he had been active for so many years. He was laid to rest eight days later in Jedlesee Cemetery.

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[1] Reprinted from Flora Hawaiiensis (Vol. 6), Nov. 15, 1962.

[2] Collaborator in Hawaiian Botany, New York Botanical Gardens. Mailing address: Mokuleia Beach, Waialua, Oahu, Hawaii.

B O T A N I C A L N O T E S

The Pacific Southwest Forest and Range Experiment Station, U. S. Forest Service, U.S.D.A., and the Forestry Division, Department of Land and Natural Resources, State of Hawaii, have moved from their Young Street quarters to 400 South Beretania Street, Honolulu 13.

Dr. Benjamin C. (Skip) Stone, Head, Department of Biology, College of Guam, Agana, Guam, is now serving as a guard and social worker. The typhoon disrupted the college's schedule, although the buildings were relatively unscathed. His library was saved because they were in his office, but he lost his home and belongings.

At the annual meeting of the CONSERVATION COUNCIL FOR HAWAII on November 8, the Council adopted the revised constitution and elected the officers proposed by the Nominating Committee (see last issue). A statement by Governor-elect John A. Burns on conservation was read to the Council. Individual membership dues are one dollar ($1.00) per year and may be sent to Miss I Brubacher (Treasurer), 3027 Pualei Circle, Honolulu, 15.

D I R E C T O R Y A D D I T I O N S

LEOPOLD, Dr. A. CARL. Department of Plant Physiology, University of Hawaii, Honolulu 14; 2550 Saul Place, Honolulu 16; tel. (bus.) 992-051, ext. 384, (res.) 729-275; Carnegie Visiting Prof. of Plant Physiology, UH; plant physiology: growth substances in developmental physiology (physiology of senescence, abscission, polar auxin transport in plants and flowering).

RICHMOND, GEORGE B. Hawaii Research Center, U. S. Forest Service, c/o P. O. Box 1761, Hilo; 1053 Koumana Dr., Hilo; tel. (bus.) 3189, (res.) 45-404; Research Forester, USFS; Plant ecology, taxonomy and evolution (various silvicultural and timber management projects in Hawaii and silvicultural characteristics of Acacia Koa).

SASTRAPRADJA, DIDIN. Department of Botany, University of Hawaii, Honolulu 14; 1810 University Ave., Honolulu 14; tel. (bus.) 992-051, ext. 369, (res.) 996-461; graduate student, UH; morphology (anatomy of Metrosideros).

SHINBARA, BERNARD H. Weed Branch, Division of Plant Industry, State of Hawaii Dept. of Agriculture, P. O. Box 5425, Honolulu 14; 45-518 Koolau View Drive, Kaneohe; tel. (bus.) 92-071, ext. 137, (res.) 240-056; Seed Analyst, State Dept. Agric.; physiology and taxonomy of seeds (viability of weed seeds and seed identification studies).

SMITH, Dr. RICHARD F. Department of Agricultural Biochemistry, University of Hawaii, Honolulu 14; 2456 Oahu Ave., Honolulu 14; tel. (bus.) 992-051, ext. 352, (res.) 984-138; Assistant Biochemist, UH; plant physiology and biochemistry, growth hormones, algae (algae and fungi symbioses, phytotoxicity of fungicides).

TOMICH, Dr. P. QUENTIN. Plague Research Unit, State of Hawaii Department of Health, Honokaa; Box 517, Honokaa; tel. (bus.) 75-4421, (res.) 75-2622; Animal Ecologist II (Mammalogist), State Dept. Health; Vertebrate zoology (chiefly mammals and birds), vertebrate animal ecology and plant ecology (rodent and mongoose populations in the Hamakua District of Hawaii, including range, densities, longevity, environmental stress; and bibliography and check-list of Hawaiian mammals).

RECENT PUBLICATIONS

AKAMINE, ERNEST K. 1962. Storage of fresh ginger rhizomes. HAES bul. 130.

BARTRAM, EDWIN B. (Oct.) 1961. Low altitude mosses from northeastern New Guinea. Brittonia 13(4): 368-380.

BRITTEN, E. J. (Oct. (Nov. 6)) 1961. An interesting growth relationship between two specimens of Erythrina sandwicensis. Am. Midl. Nat. 66: 504.

BUNTING, GEORGE S. (Sept.) 1962. Nomina conservanda proposita: (94) Monstera Schott. Taxon XI(7): 224.

DEGENER, OTTO, & ISA DEGENER. (Nov. 15) 1962. Franz Elfried Wimmer, 1881-1961, in Flora Hawaiiensis. 2 pp.

_____ (Nov. 15) 1962. Flora Hawaiiensis (Vol. 6). 30 pp., 12 figs. (Gonocormus, Doryopteris, Sphenopholis, Scirpus, Peperomia (key), Santalum, Fragaria, Tetraplasandra, Bacopa, Nicoteba and Helichrysum).

GOWING, DONALD P., & A. H. LANGE. (April) 1962. The impact of herbicide research on field practices in pineapple culture. Weeds 10: 118-120 (PRI tech. pap. 280).

_____ (July) 1962. Changing the color of flowers with floral chloroalkyl-carboxylyic acid. Proc. Amer. Soc. Hort. Sci. 80: 645-649.

HAWAII DEPT. OF LAND AND NATURAL RESOURCES. 1962. Index to laws relating to public lands. (Act. 32, Session Laws 1962). 28 1.

HAWAII NATURAL HISTORY ASSOCIATION. 1961. Kipuka Puaulu, self-guiding nature trail, Hawaii Volcanoes National Park. 12 pp.

HINE, R. B., & M. ARAGAKI. (Oct.) 1962. A new wilt disease of Carnations in Hawaii caused by Phytophthora parasitica. Hawaii Farm Sci. 11(4): 6, 1 fig.

KAMEMOTO, H. (Oct.) 1962. Some factors affecting the keeping quality of Anthurium flowers. Hawaii Farm Sci. 11(4): 2-4, 6 tabs.

KINCH, D. M., & J. C. RIPPERTON. 1962. Koa haole production and processing. HAES bul. 129.

LANGE, A. H. 1961. Factors affecting sex changes in the flowers of Carica papaya L. Amer. Soc. Hort. Sci. Proc. 77: 252-264.

_____. 1961. Responses of Solo papaya to mulching. Amer.Soc.Hort.Sci.Proc.77:245-251.

LeBARRON, RUSSELL K. 1962. Eucalypts in Hawaii: a survey of practices and research programs. Pacific Southwest Forest and Range Expt. Sta. misc. pap. 64, 23 pp., illus.

MOOMAW, J. C. 1962. Irrigated forage and grain sorghum trials at Kekaha, Kauai. HAES tech. prog. rpt. 134.

MURASHIGE, T., R. A HAMILTON AND J. T. KUNISAKI. (Oct.) 1962. Papaya retards Macadamia growth. Hawaii Farm Sci. 11(4): 1-2, 1 tab.

(Continued on page 12)

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R E C E N T P U B L I C A T I O N S (Continued

NAKASOME, H. Y., & H. KAMEMOTO. 1962. Anthurium culture, with emphasis on the effects of some induced environments on growth and flowering. HAES tech. bul. 50.

NELSON, ROBERT E. 1962. Forest products harvested in Hawaii: 1958 and 1960. Pacific Southwest Forest and Range Expt. Sta. misc. pap. 71, 3 pp.

SHAW, H. K. AIRY. (Sept.) 1962. Nomina conservanda proposita: (93) Pandanus L.f.; (95) Pittosporum Banks ex Solander. Taxon XI(7): 223-225.

WIJK, R. VAN DER, & W. D. MARGADANT. (Sept.) 1962. New combinations in Mosses VII. Taxon XI(7): 221-223.

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